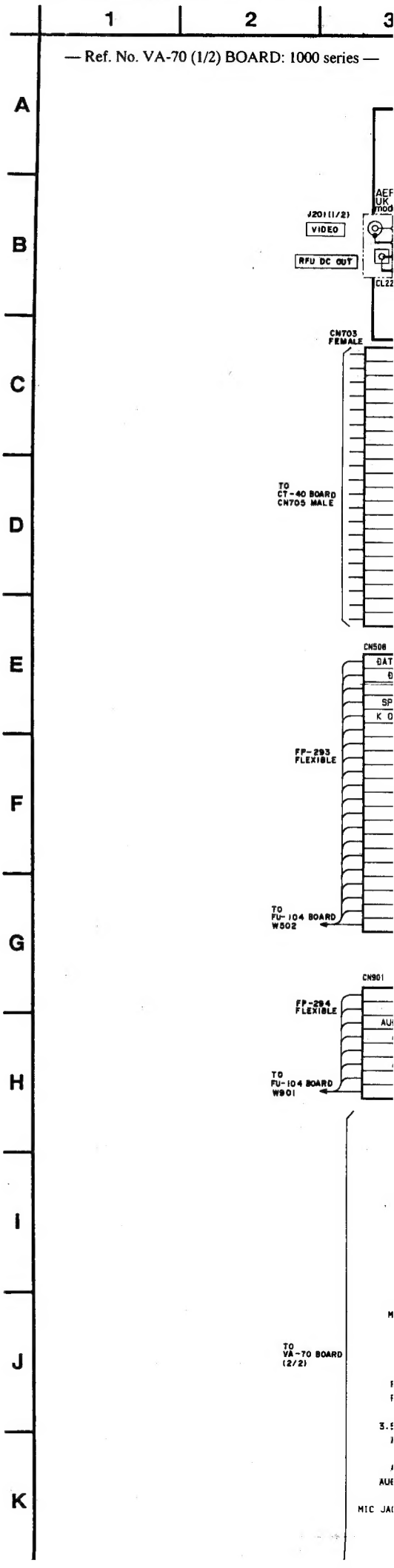
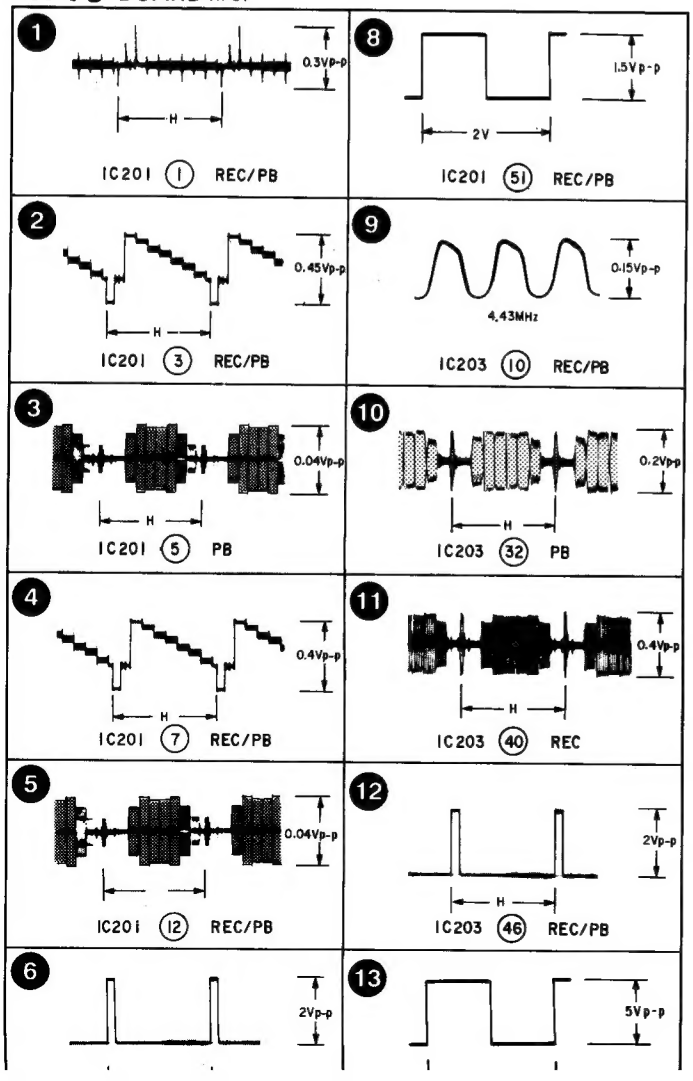
VA-70 (1/2) (VIDEO PROCESS) SCHEMA

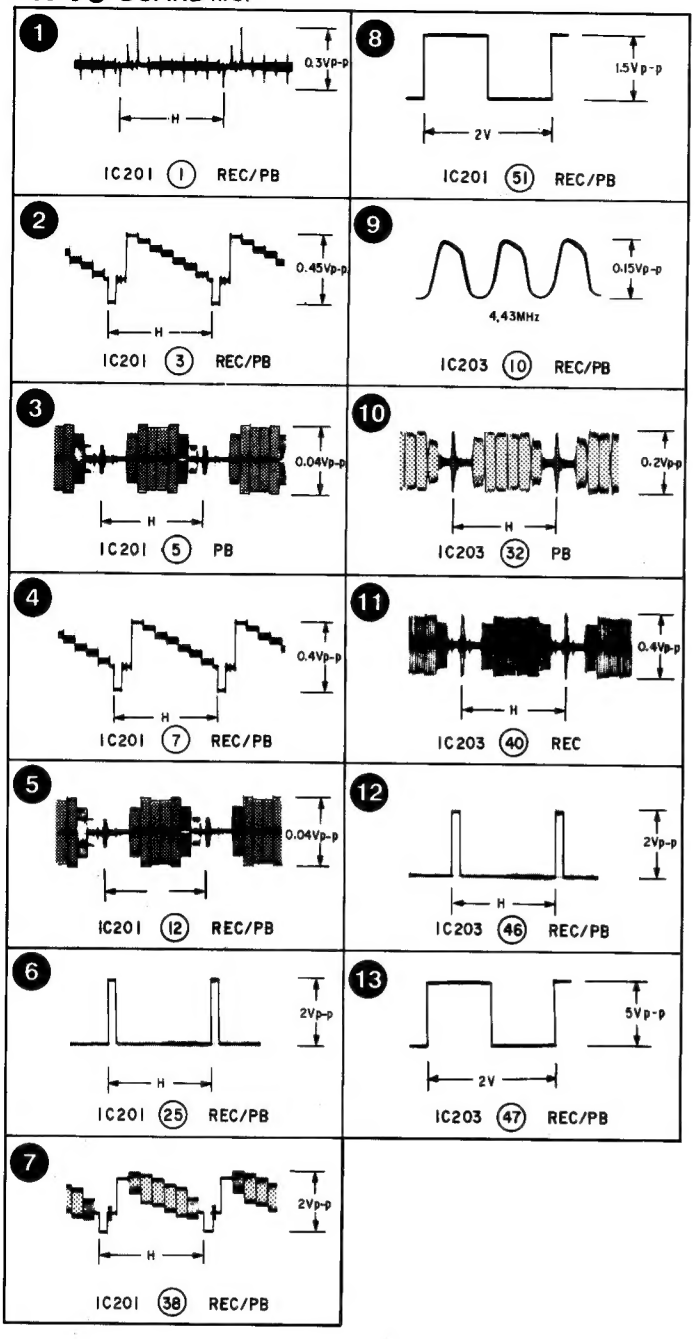
— Ref. No. VA-70 (1/2) BOARD: 1000 series —



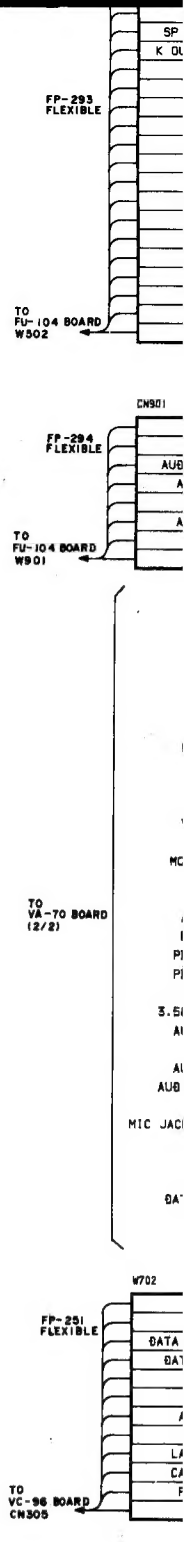
VA-70 BOARD (1/2)



VA-70 BOARD (1/2)

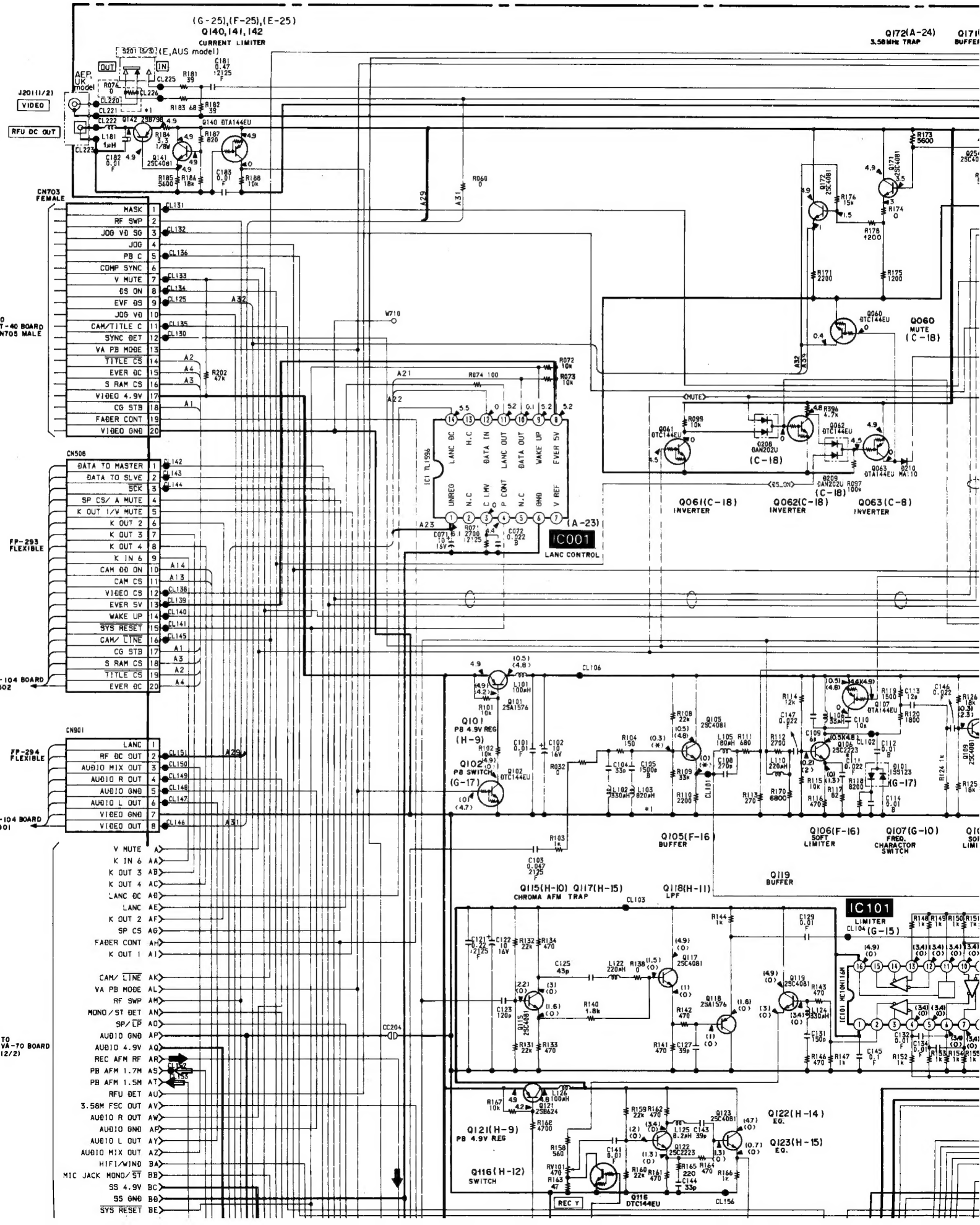


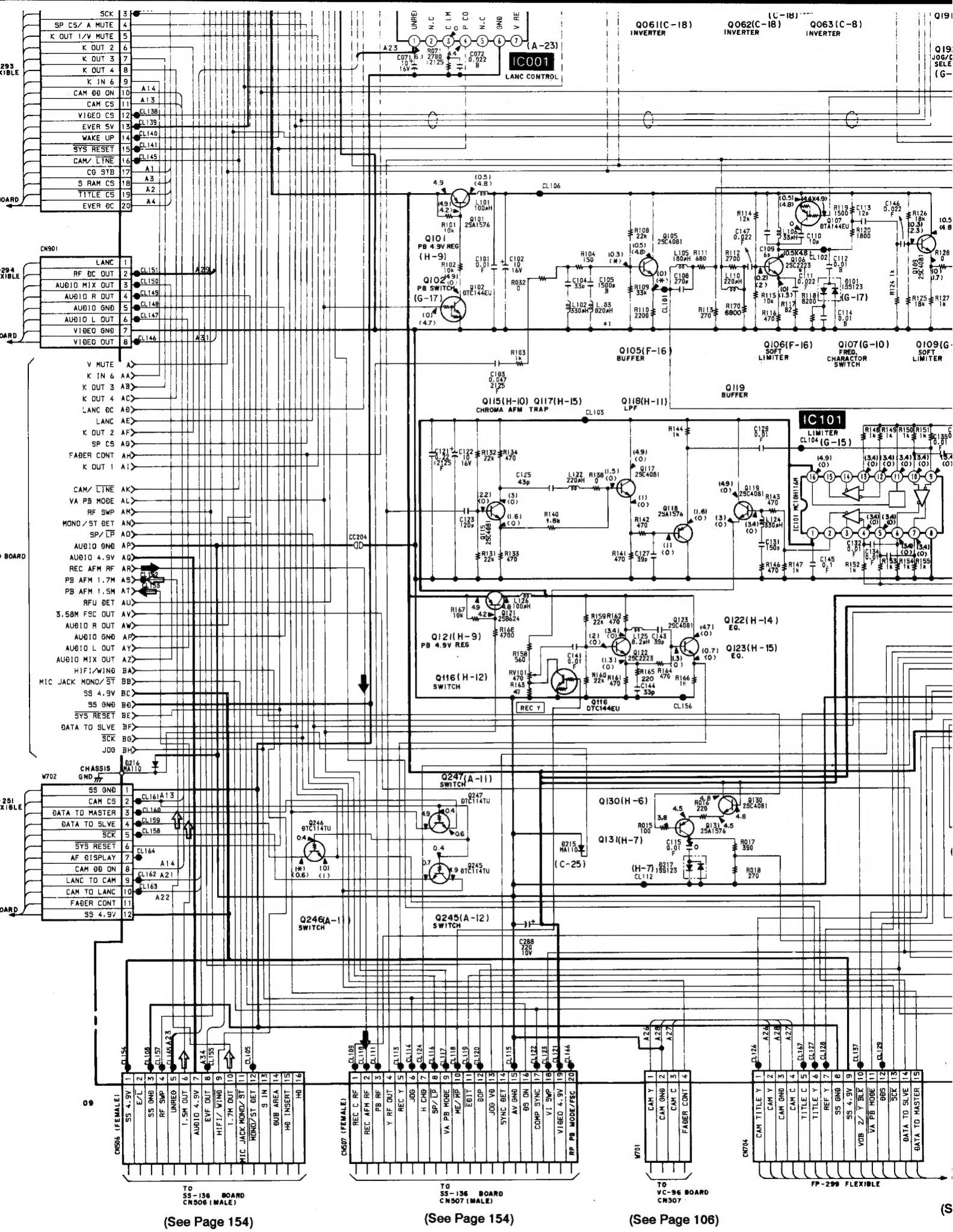
F G H I J K L M N O

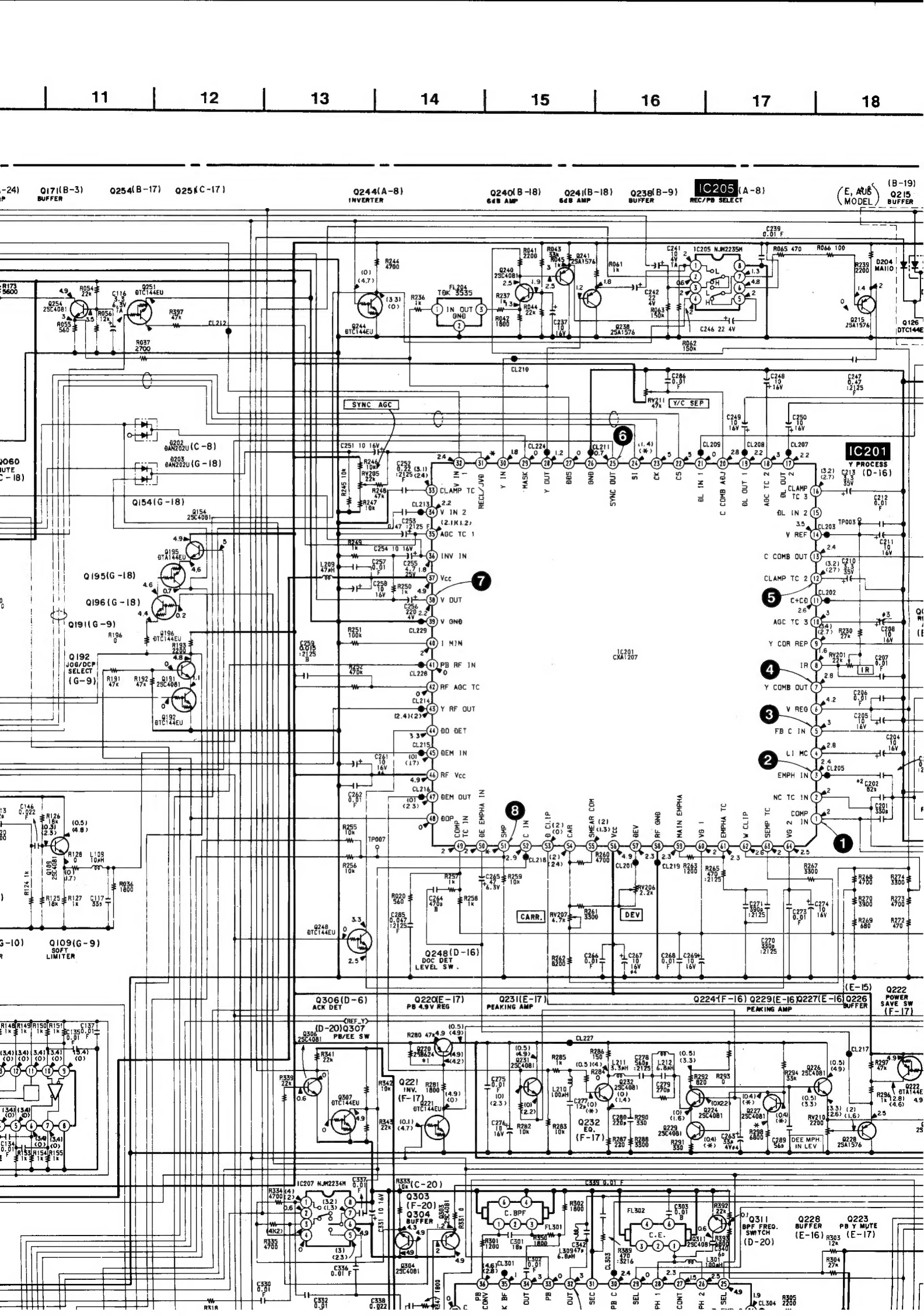


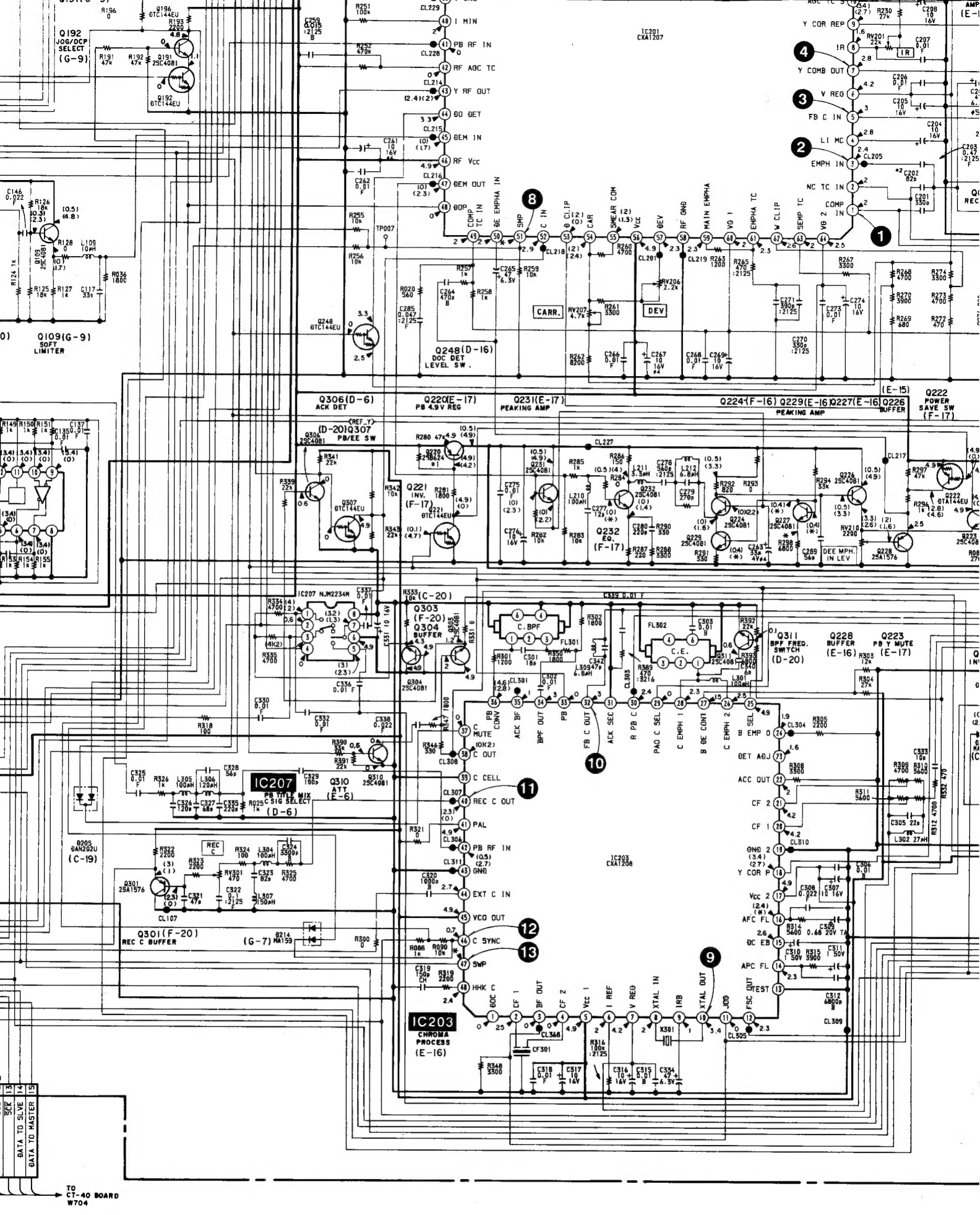
- **SIGNAL PATH**

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC	➡	➡	➡	➡
PB	⇨	⇨	⇨	⇨

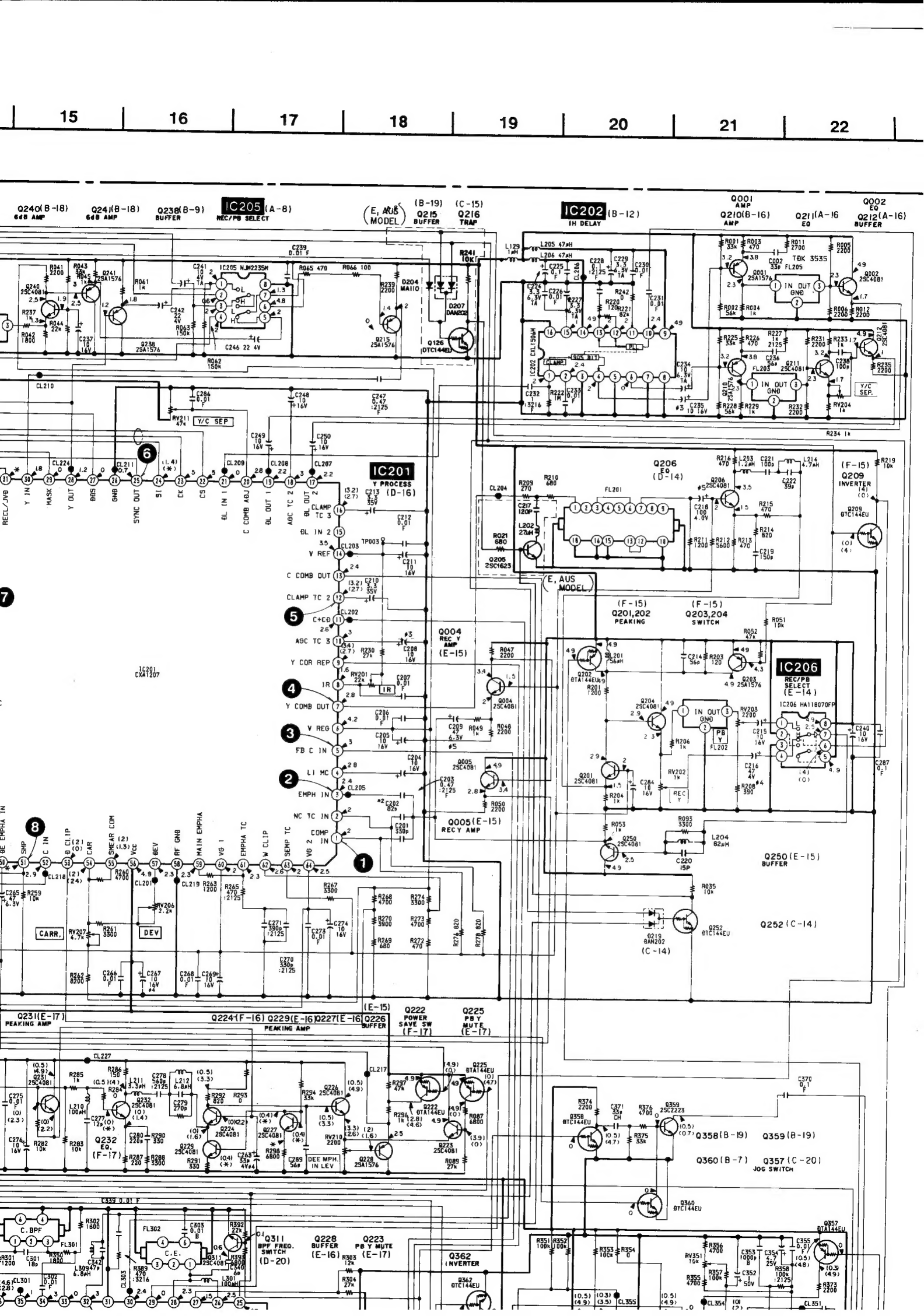

(G-25),(F-25),(E-25)
Q140,141,142
CURRENT LIMITER
(E,AUS model)
AEP, UK model
J201(1/2)
VIDEO
RFU DC OUT
CN703 FEMALE
MASK
RF SWP
JOG VΦ SG
JOG
PB C
COMP SYNC
V MUTE
ΦS ON
EVF ΦS
JOG VΦ
CAM/TITLE C
SYNC ΦET
VA PB MODE
TITLE CS
EVER ΦC
S RAM CS
VIDEO 4.9V
CG STB
FADER CONT
VIDEO GND
CN506
DATA TO MASTER
DATA TO SLVE
SCK
SP CS/ A MUTE
K OUT 1/V MUTE
K OUT 2
K OUT 3
K OUT 4
K IN 6
CAM ΦΦ ON
CAM CS
VIDEO CS
EVER 5V
WAKE UP
SYS RESET
CAM/ LINE
CG STB
S RAM CS
TITLE CS
EVER ΦC
FP-293 FLEXIBLE
CN901
LANC
RF ΦC OUT
AUDIO MIX OUT
AUDIO R OUT
AUDIO GNΦ
AUDIO L OUT
VIDEO GNΦ
VIDEO OUT
FP-294 FLEXIBLE
V MUTE
K IN 6
K OUT 3
K OUT 4
LANC ΦC
LANC
K OUT 2
SP CS
FADER CONT
K OUT 1
CAM/ LINE
VA PB MODE
RF SWP
MONO/ST ΦET
SP/ LP
AUDIO GNΦ
AUDIO 4.9V
REC AFM RF
PB AFM 1.7M
PB AFM 1.5M
RFU ΦET
3.58M FSC OUT
AUDIO R OUT
AUDIO GNΦ
AUDIO L OUT
AUDIO MIX OUT
HIFI/WIND
MIC JACK MONO/ST
SS 4.9V
SS GNΦ
SYS RESET
TO VA-70 BOARD (2/2)
Q172(A-24)
3.58MHz TRAP
Q060
MUTE
(C-18)
Q061(C-18)
INVERTER
Q062(C-18)
INVERTER
Q063(C-8)
INVERTER
IC001
LANC CONTROL
Q10
PB 4.9V REG
(H-9)
Q102
PB SWITCH
(G-17)
Q105(F-16)
BUFFER
Q106(F-16)
SOFT LIMITER
Q107(G-10)
FREQ. CHARACTOR SWITCH
Q119
BUFFER
Q115(H-10) Q117(H-15)
CHROMA AFM TRAP
Q118(H-11)
LPF
IC101
LIMITER
CL104 (G-15)
Q121(H-9)
PB 4.9V REG
Q116(H-12)
SWITCH
Q122(H-14)
EQ.
Q123(H-15)
EQ.
REC Y

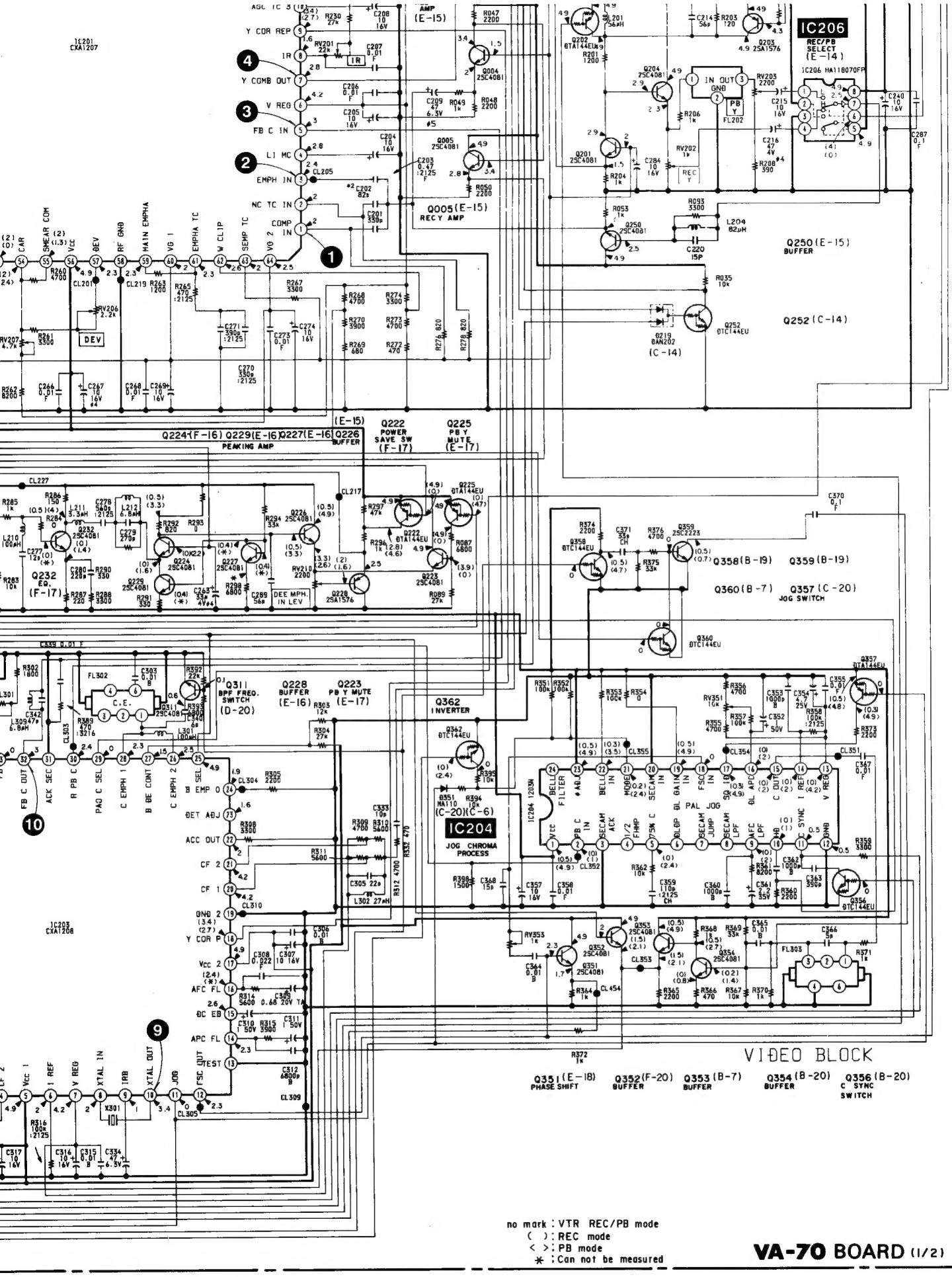

IC001
LANC CONTROL
IC101
LIMITER
Q101 PB 4.9V REG (H-9)
Q102 PB SWITCH (G-17)
Q105(F-16) BUFFER
Q106(F-16) SOFT LIMITER
Q107(G-10) FREQ. CHARACTOR SWITCH
Q109(G- SOFT LIMITER
Q119 BUFFER
Q115(H-10) Q117(H-15) CHROMA AFM TRAP
Q118(H-11) LPF
Q121(H-9) PB 4.9V REG
Q122(H-14) EQ.
Q123(H-15) EQ.
Q116(H-12) SWITCH
Q247(A-11) SWITCH
Q246(A-1) SWITCH
Q245(A-12) SWITCH
Q130(H-6)
Q131(H-7)
Q061(C-18) INVERTER
Q062(C-18) INVERTER
Q063(C-8) INVERTER
CN901
W702
CN506 (FEMALE)
CN507 (FEMALE)
W701
CN704
TO SS-136 BOARD CN506 (MALE)
TO SS-136 BOARD CN507 (MALE)
TO VC-96 BOARD CN307
FP-299 FLEXIBLE
(See Page 154)
(See Page 154)
(See Page 106)


11
12
13
14
15
16
17
18
IC205 (A-8)
REC/PB SELECT
(E, AUS MODEL)
(B-19)
Q215
BUFFER
Q254(B-17)
Q251(C-17)
Q244(A-8)
INVERTER
Q240(B-18)
6dB AMP
Q241(B-18)
6dB AMP
Q238(B-9)
BUFFER
Q204
MA110
Q126
DTC144E
SYNC AGC
Y/C SEP
IC201
Y PROCESS
(D-16)
Q202
DAN202U(C-8)
Q203
DAN202U(G-18)
Q154(G-18)
Q154
2SC4081
Q195(G-18)
Q196(G-18)
Q191(G-9)
Q192
JOG/DCP
SELECT
(G-9)
Q109(G-9)
SOFT
LIMITER
Q248(D-16)
DOC DET
LEVEL SW.
Q306(D-6)
ACK DET
Q220(E-17)
PB 4.9V REG
Q231(E-17)
PEAKING AMP
Q224(F-16)
Q229(E-16)
Q227(E-16)
Q226
BUFFER
PEAKING AMP
(E-15)
Q222
POWER
SAVE SW
(F-17)
(D-20)Q307
PB/EE SW
Q221
INV.
(F-17)
Q232
EQ.
(F-17)
Q303
(F-20)
Q304
BUFFER
Q311
BPF FREQ.
SWITCH
(D-20)
Q228
BUFFER
(E-16)
Q223
PB Y MUTE
(E-17)
IC207 NJM2234M
C. BPF
C. E.
FL201
TDK 3535
IN OUT GND
FL301
FL302
CARR.
DEV
DEE MPH
IN LEV
CXA1207


IC207 NJM2234M
PB TITLE MIX
C SIG SELECT
(D-6)
IC203
CHROMA
PROCESS
(E-16)
IC201
CXA1207
IC203
CXA1208
Q248(D-16)
DOC DET
LEVEL SW.
Q303
(F-20)
Q304
BUFFER
Q301(F-20)
REC C BUFFER
Q306(D-6)
ACK DET
Q220(E-17)
PB 4.9V REG
Q231(E-17)
PEAKING AMP
Q224(F-16) Q229(E-16) Q227(E-16) Q226
PEAKING AMP
Q222
POWER
SAVE SW
(F-17)
Q109(G-9)
SOFT
LIMITER
Q221
INV.
(F-17)
Q232
EQ.
(F-17)
Q311
BPF FREQ.
SWITCH
(D-20)
Q228
BUFFER
(E-16)
Q223
PB Y MUTE
(E-17)
Q310
ATT
(E-6)
Q192
JOG/DCP
SELECT
(G-9)
Q307(D-20)
PB/EE SW
CARR.
DEV
DEE MPH.
IN LEV
C. BPF
C.E.
DATA TO SLVE
DATA TO MASTER
SCK
TO
CT-40 BOARD
W704

(See Page 119)


15
16
17
18
19
20
21
22
IC205 (A-8)
REC/PB SELECT
IC202 (B-12)
1H DELAY
IC201
Y PROCESS
(D-16)
IC206
REC/PB SELECT
(E-14)
Q240(B-18)
6dB AMP
Q241(B-18)
6dB AMP
Q238(B-9)
BUFFER
(E, AUS MODEL)
(B-19)
Q215
BUFFER
(C-15)
Q216
TRAP
Q001
AMP
Q210(B-16)
AMP
Q211(A-16
EQ
Q002
EQ
Q212(A-16)
BUFFER
Y/C SEP.
Q206
EQ
(D-14)
(F-15)
Q209
INVERTER
(E, AUS MODEL)
(F-15)
Q201,202
PEAKING
(F-15)
Q203,204
SWITCH
Q004
REC Y AMP
(E-15)
Q005(E-15)
REC Y AMP
Q250(E-15)
BUFFER
Q252(C-14)
Q219
(C-14)
Q231(E-17)
PEAKING AMP
Q224(F-16) Q229(E-16) Q227(E-16)
PEAKING AMP
(E-15)
Q226
BUFFER
Q222
POWER SAVE SW
(F-17)
Q225
PB Y MUTE
(E-17)
Q232
EQ.
(F-17)
Q358(B-19)
Q359(B-19)
Q360(B-7)
Q357(C-20)
JOG SWITCH
Q311
BPF FREQ. SWITCH
(D-20)
Q228
BUFFER
(E-16)
Q223
PB Y MUTE
(E-17)
Q362
INVERTER
C. BPF
C. E.
FL301
FL302
FL201
FL202
FL203
TBK 3535
CXA1207
NJM2235M
CXC1504M
HA118070FP
CARR.
DEV
DEE MPH. IN LEV
Y/C SEP
IR
REC Y
PB Y
CLAMP
BGP BLT
Y IN
MASK
Y OUT
BIAS
GND
SYNC OUT
SI
CK
CS
BL IN 1
C COMB ADJ
BL OUT 1
AGC TC 2
BL OUT 2
CLAMP TC 3
BL IN 2
V REF
C COMB OUT
CLAMP TC 2
C+CD
AGC TC 3
Y COR REF
IR
Y COMB OUT
V REG
FB C IN
L) MC
EMPH IN
NC TC IN
COMP IN
RECL/JVB
SMP
C IN
B CLIP
CAR
SMEAR COM
VCC
BEV
RF GND
MAIN EMPHA
VG 1
EMPHA TC
W CLIP
SEMP TC
VG 2
IN
OUT
GND


IC206
REC/PB SELECT (E-14)
IC206 HA118070FP
Q005 (E-15) REC Y AMP
Q250 (E-15) BUFFER
Q252 (C-14)
Q219 0AN202 (C-14)
Q224 (F-16) Q229 (E-16) Q227 (E-16) Q226 BUFFER PEAKING AMP
Q222 POWER SAVE SW (F-17)
Q225 PB Y MUTE (E-17)
Q232 EQ. (F-17)
Q358 (B-19) Q359 (B-19)
Q360 (B-7) Q357 (C-20) JOG SWITCH
Q311 BPF FREQ. SWITCH (D-20)
Q228 BUFFER (E-16)
Q223 PB Y MUTE (E-17)
Q362 INVERTER
IC204 JOG CHROMA PROCESS
PAL JOG
VIDEO BLOCK
Q351 (E-18) PHASE SHIFT
Q352 (F-20) BUFFER
Q353 (B-7) BUFFER
Q354 (B-20) BUFFER
Q356 (B-20) C SYNC SWITCH
no mark : VTR REC/PB mode
( ) : REC mode
< > : PB mode
* : Can not be measured
VA-70 BOARD (1/2)